

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

- 1-4. (Canceled)
5. (Currently amended) A An isolated polynucleotide that encodes a mutant adenomatous polyposis coli (APC) protein ~~comprising the function of inducing piling up of cells which induces piling up of cells, wherein the protein consists of a sequence 95% or higher identical to amino acids 1-859 of SEQ ID NO:1.~~
6. (Original) A vector that comprises the polynucleotide of claim 5.
7. (Currently amended) A cell that comprises an artificially expressed mutant APC protein encoded by the polynucleotide of claim 5, ~~or the vector of claim 6.~~
8. (Currently amended) The cell of claim 7, which is ~~derived from a mammal~~ a mammalian cell or a derivative thereof.
9. (Currently amended) The cell of claim 7, which is ~~derived from a~~ Xenopus laevis cell or a derivative thereof.
10. (Currently amended) A The cell of claim 7, which is an established cell line.
- 11-13. (Canceled)
14. (Currently amended) The polynucleotide of claim 5, wherein the mutant APC protein is ~~derived from a~~ Xenopus laevis protein.
15. (Currently amended) The isolated polynucleotide of claim 5 ~~and 13,~~ wherein the polynucleotide encodes a mutant APC protein consisting of the sequence of amino

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acids 1-859 of SEQ ID NO:1. ~~in which one or more amino acids of the APC protein are substituted, deleted, added, and/or inserted.~~